

## Agricultural Column.

### Horizontal Training of Grape Vines.

A writer of the *Valley Farmer* recommends the horizontal training of grape vines, and also asserts that the "downward growing limbs of fruit trees should not be lopped off." The reason assigned for this is, that it increases the crop of fruit. He asserts that experiments of this kind have been made in Europe for several years. He then says: "It is accounted for the law of gravitation than when restrained by it."

The facts from which the writer draws his inference, are as old as horticulture itself, and the system has been practiced in vineyards and orchards from time immemorial; but his conclusions are wide of the mark.

One of the most common things practiced by intelligent horticulturists is, when an apple or pear tree continues to make wood rapidly, and produces no fruit (which is often the case with some kinds when growing on very rich land), he hangs weights on the branches, or ties them down with cords; this checks the flow of sap, instead of hastening its circulation, by the force of gravitation, and causes fruit spurs to be formed, and a habit of fruit bearing is thus established. Ringing is also sometimes resorted to, with the same results. Ordinarily, it is well not to encourage the drooping habit of apple trees, but the most experienced orchardists shorten in the branches of the trees when young, in order to strengthen the arms and encourage an upright or pyramidal form. When this is well attended to, the wood producing, as well as the fruit producing forces are maintained in equilibrium, and so long as this is done, and the roots properly fed with their natural aliment, the tree will continue in health and fruitfulness perpetually. The drooping habit, increased by each burden of fruit, destroys the wood producing force, and the tree continues to bear year after year until its vital powers are exhausted, when it finally dies.

Training the vine horizontally has been practiced for hundreds of years. The natural habit of the vine is to reach the highest point possible, as long as it can find support. The object of the vine dresser is to restrict the growth of the vine within convenient limits, and keep it under his control, without impairing its fruitfulness. Hence, the various methods of training have been adopted. A grape vine generally cannot be expected to mature its fruit perfectly from a cane much more than four feet in length. That is, a vine dresser, for instance, when training his vines to stakes, but the cane for the next season's bearing to three and a half or four foot long. This cane will have, say, five good buds upon it, each of which will produce a bearing shoot; the topmost bud will break the strongest, and unless checked by some means will continue in the ascendancy throughout the season, and if permitted to grow in an upright direction, it will grow the faster, its sap ascending with increased vigor, notwithstanding the "law of gravitation." The shoots and bunches of fruit spring from the eyes below are deprived of their due share of support in consequence of the natural tendency of the upper shoots in gaining the ascendancy. Now, if the cane has been cut six or more feet long, the current of support will be so strongly diverted to the upper fruit bearing shoots, that the lower ones not receiving their share of sustenance will fail to ripen their crop. It is from this tendency of the vine to shoot the strongest from its uppermost buds, that some vine-dressers adopt the bow system of training, which is practiced to a considerable extent about Cincinnati. The cane, when cut to four feet in length, being bent and tied in a bow, the flow of sap being towards the end buds is checked, and a more uniform growth of all the buds is secured. When the arm system of training is adopted, other methods of overcoming this evil are resorted to. Say, each arm is trained four feet long from the main stem, and each arm will send up five bearing shoots. Notwithstanding the arm is secured in a horizontal position, the shoots nearest the end will out-grow and rob those nearest the main trunk of an equal share of sap. To equalize this growth, the intelligent vine-dresser will stop the outer or strongest growing shoots some days before he does those nearest the stem, and thus, in some measure, cause them to mature their fruit more uniformly.

I have before me the foreign works on the vine. We have the highest authority among the French writers, and some of their works are of ancient date. The point referred to has long been a study among the best growers of Europe. In a well illustrated work by a French author, a plan is given, which is extensively practiced in France and other portions of Europe, to equalize the growth of the shoots from the same arm. The arm, instead of being placed horizontal, is depressed, say four inches in a length of four feet. That is, the

end of the arm is secured down about inches lower than it is near the main stem. This depression secures the same advantages as when the early pinching back is resorted to as described above. The facts here stated are well known to professional horticulturists and to vegetable physiologists. But vine growing in our country is in its infancy, and it is to be regretted that we have not a single work in the English language yet complete, calculated to meet the wants of American vine dressers.—*Cor. Valley Farmer.*

The Rome correspondent of the *London Times* says that at the last "Accademia Poliglotta" of the great Catholic College of the Propaganda, the youths who carried off the palm were two negroes, who in the name of William Samba and John Provost. Their delivery and action were wonderful, and called forth thunders of applause even in a church.

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Three year old Apples, ten dollars per hundred, forty-seven dollars for 500, ninety dollars for 1000; large, for immediate bearing, fifteen dollars per 100, seventy dollars for 500, one hundred and thirty-five dollars for 1000. Peaches, seedling, two and three years old, four dollars per 100, nineteen dollars for 500, thirty-five dollars per 1000; choice budded, ten dollars 100. Pears, Cherries and Chestnuts, 25 to 50 cents each. Grapes: Delaware, five years old, transplanted and root-pruned, \$1.50; three years, \$1.25; two years, \$1; layers, 25 to 50 cents; Concord, 25 cents to 1.00; Catawba, Isabella, Clinton, Ison, 20 to 35 cents; Franklin, Diana, Northern Muscadine, Hartford Prof. 50 to 75 cents. Blackberries, Lawton, \$1 per dozen. Currants and Gooseberries 15 cents each. Strawberries from 25 to 40 cents a dozen. Rhubarb from 10 to 25 cents each. Everything else in proportion.

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### NOTICE.

Is hereby given, that a petition will be presented at the meeting of the Commissioners for Davis county, Kansas, at the meeting in April, 1864, praying that a County Road be laid out commencing at the intersection of the Riley county road with the Davis county line, near the residence of John Godwin, and thence running on the nearest practicable route to intersect with the Junction City and Council Grove road, or in case said road is not legally made out, then the terminus to be Junction City. E. G. Robinson, and others.

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1000 KEGS ASSORTED NAILS;

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STREETER & STRICKLER, Junction City, October 25, 1863.

## DICKINSON COUNTY Delinquent Tax List, 1863.

Notice is hereby given that so much of each tract of land, in the subjoined list, as may be necessary for that purpose, will, on the FIRST TUESDAY OF MAY NEXT, and the next succeeding days thereafter, be sold by me at Public Auction, at my office, at the seat of Justice of said County, for the taxes, penalties and charges thereon. J. FRED. STAATZ, Deputy. By T. F. HENKAT, Deputy.

Subdivision.	S.	T.	R.
seqr	13	14	4
whfawqr and neqrwqr	34	15	4
neqrseqr	24	12	4
seqr	24	12	4
shfneqr	27	11	8
shfnwqr	27	11	8
nwqr	22	12	4
nwqrneqr	22	12	4
seqr	20	12	4
nwqr	20	12	4
seqr	14	14	4
seqrnwqr	11		
lots 1356	14	13	8
nwqr	6	13	4
seqrnwqr lots 36411	20		
lot 3	17	13	8
nwqr	22	13	8
neqr	19	12	4
seqr	35	14	4
shfnwqrwhfneqrnwqr	35		
seqr	34	14	4
chfseqr	22	12	4
neqr	10	14	4
seqr	17	11	4
whfneqrseqrnwqr	3		
nwqr	3	14	1
shfnwqr	2	14	2
seqr	14	13	8
whfseqr	27		
chfseqr	22	12	4
neqr	25	14	4
seqr	23	12	4
nwqrneqrshfnwqrneqr	34	15	4
qrnwqr	27		
shfnwqr	22	13	1
seqrnwqr	12	14	4
neqr	11	12	3
whfawqrseqrnwqr	12		
seqrneqr	12	12	3
chfseqr	22	13	1
whfnwqr	22	14	2
whfnwqr lots 15	21	13	8
whfnwqrchfnwqr	1	12	3
shfnwqr	30		
shfnwqr	23		
lot 1	24	13	2
seqr	27	11	8
seqr	32	12	2
whfnwqr	1		
nwqrnwqr	12	11	2
whfnwqr	23		
chfseqr	22	14	2
nwqr	34	13	2
neqrneqrwhfnwqr	23	15	2
whfnwqr	17		
shfnwqr	8	13	2
whfnwqrshfnwqr	15	13	2
neqrseqrnwqrseqr	12		
chfseqr	12		
neqrnwqr	13	14	4
seqr	21	12	8
nwqr	21	12	4
chfnwqrnwqrneqr	31		
lots 79	30		
shfnwqrnwqrseqr	20	13	1
shfnwqr	23	12	4
shfnwqr	12	13	2
shfnwqr	15		
shfnwqr	22	13	2
seqr	22	13	2
neqr	23	13	2
seqr	21	13	2
neqrseqr	22		
seqrnwqr	23		
shfnwqr	23	15	4
lot 3 and seqrneqr	24	11	4
shfnwqrwhfnwqr	14		
shfnwqr	11	13	3
neqr	5	12	4
nwqr	19	12	4
seqrnwqr lots 361011	20		
lots 3	17	13	8
chfnwqrnwqrneqrseqr	35	11	8
neqr	35	11	8
seqrseqrwhfnwqr	2	12	3
neqrneqr	2	12	3
nwqr	28	11	3
seqr	11	11	4
whfnwqr	34		
seqrnwqrnwqrseqr	27	12	4
whfnwqrnwqrseqr	27	12	4
whfnwqrshfnwqr	32		
lots 45	34	12	4
seqr	29	11	3
whfnwqrwhfnwqr	1	12	3
whfnwqrshfnwqr	13	12	3
nwqr	13	12	3
lot 8	28		
nwqrnwqr	26		
lots 235	35	12	4
nwqr	18	13	8
nwqr	24	13	2
shfnwqrseqrnwqr	10	13	2
lots 678	9	13	3
shfnwqrwhfnwqr	11	14	2
lots 1949	27		
seqrnwqr	26	13	1
seqrseqr	13		
chfnwqr	14	12	4
shfnwqrseqrnwqr	14	14	4
seqr	10	13	2
shfnwqr	11	13	2
whfnwqr	24	14	1
lots 2910	9	13	3
nwqr	18	11	3
seqr	3	12	3
whfnwqr	34		
chfnwqr	33	13	2
shfnwqrshfnwqr	33	13	2
nwqr	4	14	2
chfnwqr	34		
whfnwqr	35	13	2
neqr	35	13	2
shfnwqr	5	14	4
lot 1	26		
lots 1 and 8	25	13	2
whfnwqr	24	13	2
shfnwqr	1	16	2
seqr	31	15	2
nwqr	18	12	4
lots 78910 and 16	31	12	4
seqr	24	13	2
lots 8 and 10	32	12	4
seqr	7	13	8
shfnwqr	18	13	8
shfnwqr	18	13	8
nwqr	19	13	8
shfnwqr	4	13	8
shfnwqrshfnwqr	12	13	2
chfnwqr lots 314	30	12	2
lots 123 and 6	32	12	2
chfnwqrnwqrnwqr lots 1	19		
chfnwqrnwqrseqr	30	12	4
neqrneqr	33	12	4
chfnwqrnwqrseqr	13	12	4
chfnwqrnwqrnwqr	13	12	4
neqr	13	12	4
seqrnwqr lots 12 and 6	2	13	8